SonicWALL Internet Security Appliances

SOHO TZW Quick Start Guide

Quick Start Installation

Thank you for purchasing a SonicWALL Internet security appliance. The SonicWALL acts as a secure barrier between your private LAN and the public Internet (WAN) to protect your networks from security threats on the Internet. It also secures your wireless connections using WiFiSec, an VPN wireless security protocol.

This Quick Start Guide provides instructions for installing and configuring your SonicWALL SOHO TZW as an Office Gateway on your network. See page 7 for an Office Gateway diagram. After you complete this guide, you can access the Internet from your wireless port using a secure VPN tunnel as well access the Internet securely through your LAN connection.

Before You Begin

Check Package Contents

- One SonicWALL Internet Security Appliance
- One SonicWALL Quick Start Guide
- One SonicWALL Firmware and Documentation CD
- Two Antennas
- One Ethernet cable
- One Crossover cable
- One 5 Volt DC power supply
- One Power cord
- One Mounting Kit

If any items are missing from your package, contact SonicWALL, Inc.
Web: <http://www.sonicwall.com/support/> Phone: (888) 777-1476

Overview of the SOHO TZW Hardware

What You Need to Get Connected

- SonicWALL Internet Security Appliance
- Internet Connection
- PC or Macintosh computer
- A Web browser (Microsoft Internet Explorer v5.0 or later, or Netscape Navigator v4.7 or later - your Web browser must support Java and HTTP uploads in order to fully manage the SonicWALL.)
- Internet Service Provider (ISP) Information TEL:_____

ISP Connection Information

Before you can begin installing your SonicWALL, determine how your ISP distributes IP addresses. Call your ISP to find out if your Internet connection uses DHCP to obtain an IP address, or PPPoE (typical of DSL access), or if they have given you a static IP address. Record all of your networking information in the checklist below:

IP Addressing using DHCP

No action necessary. The SonicWALL automatically detects the presence of a DHCP server during setup.

IP Addressing using PPPoE

User Name:_____

Password:_____

IP Addressing using a Single, Static Public IP Address

IP Address:_____

Subnet Mask:_____

Default Gateway:_____

Primary DNS:_____

Secondary DNS:_____

*If you are not using one of the network configurations above, step by step installation instructions for additional networking methods are found in **Configuring the Network Mode** section of your Administrator's Guide. The Administrator's Guide is located on your product CD and requires Acrobat Reader to view it. Acrobat Reader is also provided on your product CD.*

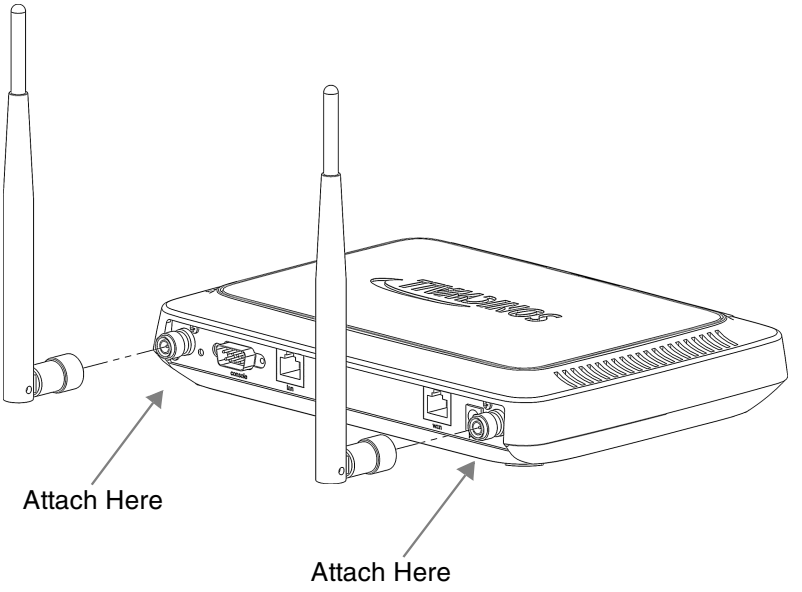
Glossary

- **IP Address** - A set of numbers in the format, XXX.XXX.XXX.XXX, used to address computers on the Internet.
- **Subnet Mask** - A set of numbers in IP address format using 255 in place of the XXX's. It determines the type of network by "masking" out numbers. A Class C network has a subnet mask of 255.255.255.0.
- **Default Gateway** - A device on an internetwork that forwards packets to another network.
- **DNS (Domain Name System) Server** - A computer that "looks up" the name of a computer and finds the corresponding IP address. This allows you to access computers on the Internet without configuring IP addresses for remote connections.
- **PPPoE** - Point to Point Protocol over Ethernet supports the transmission of network packets over serial transmission lines such as DSL or POTS (Plain Old Telephone Service).
- **DHCP** - Dynamic Host Configuration Protocol allocates IP addresses to computers on the network automatically without assigning a computer a static (fixed) IP address.
- **VPN** - Virtual Private Network is a "virtual" network that encrypts data and sends it privately over the Public Internet
- **WiFiSec** - A VPN wireless security protocol to secure wireless connections on your network.

Setup Continues

Installing the Antennas

To use the wireless feature of the SOHO TZW, you must install the antennas on the back of the appliance. Remove the antennas from the bag, and place one on each connector. The connectors should be finger-tight only.



*For wall or ceiling mounting instructions, consult your Administrator's Guide.

Adjusting the SOHO TZW Antennas

The antennas on the SOHO TZW can be adjusted for the best radio reception. In most cases, the antennas should be pointing straight up and perpendicular to the box, and then adjust as necessary. Note that certain areas, such as the area directly below the SOHO TZW, get relatively poor reception. Pointing the antenna directly at another wireless device does not improve reception. Do not place the antennas next to metal doors or walls as this can cause interference.

Setup Continues

Setting Up Your SonicWALL

1

Applying Power to the SonicWALL

Attach the power supply to the power cord. Plug the power adapter into the SonicWALL and plug the other end into a power outlet.

The **Power** light turns green when power is applied to the SonicWALL. Also, the **Test** light remains lit for approximately 90 seconds while the SonicWALL performs a series of diagnostic tests.

Connecting the SonicWALL to the Network

2

Connect one end of the gray Ethernet cable to your DSL modem, cable modem, or Internet router. Connect the other end of the gray Ethernet cable to the WAN port of the SonicWALL. The **link** LED lights indicating an active connection. If the LED does not light, try the Crossover cable.

3

Connect one end of the provided Crossover cable to the Ethernet port of your computer.

Connect the other end of the cable to the LAN port of your SonicWALL. The **link** LED lights indicating an active connection. If the LED does not light, try the Ethernet cable.

Setup Continues

4 Configuring Your Management Station

Your SonicWALL is configured with the default IP address of 192.168.168.168. This IP address is used to initially access the Management interface of the SonicWALL and launch the Setup Wizard. To access the Management interface for the first time, you must configure your computer with an IP address in the same network range as the SonicWALL. Follow the instructions below for your operating system:

Windows XP

1. Click **Start**, then **Connect to**.
2. Right-click on the **Local Area Connection** icon and select **Properties**.
3. Open the **Local Area Connection Properties** window.
4. Double-click **Internet Protocol (TCP/IP)** to open the **Internet Protocol (TCP/IP) Properties** window.
5. Select **Use the following IP address** and type 192.168.168.200 in the **IP address** field.
6. Type 255.255.255.0 in the **Subnet Mask** field.
7. Type the DNS IP address in the **Preferred DNS Server** field. If you have more than one address, type the second one in the **Alternate DNS server** field.
8. Click **OK** for the settings to take effect on the computer.

Windows 2000

1. From your Windows task bar, click **Start**.
2. Then click **Settings**.
3. Click **Network and Dial-up Connections**.
4. Double-click the network icon to open the connection window.
5. Click **Properties**.
6. Highlight **Internet Protocol (TCP/IP)** and click **Properties**.
7. Select **Use the following IP address**.
8. Enter 192.168.168.200 in the **IP address** field.
9. Enter 255.255.255.0 in the **Subnet** field.
10. If you have a DNS Server IP address from your ISP, enter it in the **Preferred DNS Server** field.

Windows NT

1. From the **Start** list, highlight **Settings** and then select **Control Panel**.
2. Double-click the **Network** icon in the **Control Panel** window.
3. Double-click **TCP/IP** in the **TCP/IP Properties** window.
4. Select **Specify an IP Address**.
5. Type "192.168.168.200" in the **IP Address** field.
6. Type "255.255.255.0" in the **Subnet Mask** field.
7. Click **DNS** at the top of the window.
8. Type the DNS IP address in the **Preferred DNS Server** field. If you have more than one address, enter the second one in the **Alternate DNS server** field.
9. Click **OK**, and then click **OK** again.
10. Restart the computer.

Setup Continues

Windows 98

1. From the **Start** list, highlight **Settings** and then select **Control Panel**. Double-click the **Network** icon in the **Control Panel** window.
2. Double-click **TCP/IP** in the **TCP/IP Properties** window.
3. Select **Specify an IP Address**.
4. Type "192.168.168.200" in the **IP Address** field.
5. Type "255.255.255.0" in the **Subnet Mask** field.
6. Click **DNS Configuration**.
7. Type the DNS IP address in the **Preferred DNS Server** field. If you have more than one address, type the second one in the **Alternate DNS server** field.
8. Click **OK**, and then click **OK** again.
9. Restart the computer for changes to take effect.

5 Launching the Setup Wizard

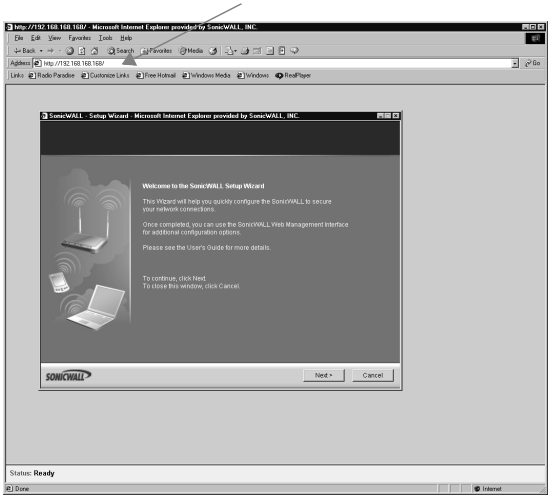
To begin the configuration of your SonicWALL, you must log into the SonicWALL using a Web browser and the default LAN IP address, 192.168.168.168, of the SonicWALL. Follow the instructions below:

1. Launch your Web browser.

Alert!

Because you are temporarily disconnected from the Internet, you may receive an error message when your Web browser first opens. This does not affect your installation process. Continue with the steps below.

2. Enter 192.168.168.168 in the **Location** or **Address** field.


SonicWALL - Setup Wizard - Microsoft Internet Explorer provided by SonicWALL, INC.
Welcome to the SonicWALL Setup Wizard
This Wizard will help you quickly configure the SonicWALL to secure your network connections.
Once completed, you can use the SonicWALL Web Management Interface for additional configuration options.
Please see the User's Guide for more details.
To continue, click Next.
To close this window, click Cancel.
SONICWALL
Next >
Cancel
Status: Ready

Alert!

Your Web browser must support Java and HTTP uploads in order to fully manage the SonicWALL appliance. Internet Explorer 5.0 or higher, as well as Netscape Navigator 4.0 or higher, are recommended.

3. The SonicWALL Installation Wizard launches and guides you through the configuration and setup of your SonicWALL.

Setup Continues

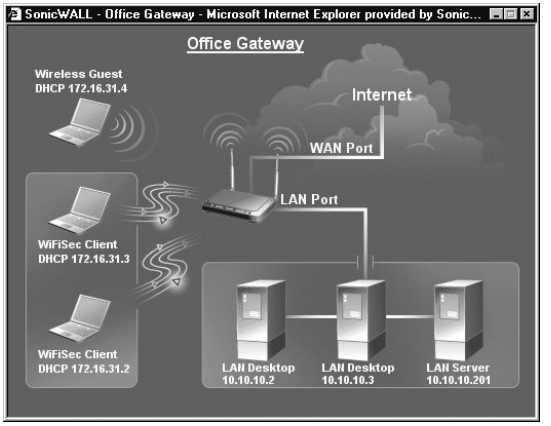
If you cannot connect to the SOHO TZW, check the following:

- Did you correctly enter the SOHO TZW LAN IP address in your browser window?
- Is the SOHO TZW connected to the same network as your computer?
- Have you changed the TCP/IP network settings on your computer? (Step 4)

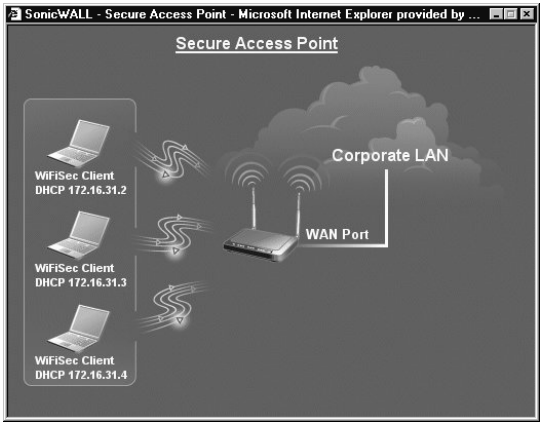
SOHO TZW Deployment Scenarios

The SOHO TZW and the SonicWALL Global VPN Client software together provide the capability of securing wireless connections using *WiFiSec,* a VPN protocol. Two typical scenarios are described below:

Office Gateway - Selected by default. Provides secure access for wired and wireless users on your network. Typically, the SOHO TZW is the gateway to the Internet for your network and allows wireless users to connect using the SonicWALL Global VPN Client software, creating a secure WiFiSec connection.



Secure Access Point - Add secure wireless access to an existing wireless network. Wireless users connect to the SOHO TZW using the SonicWALL Global VPN client software, creating a secure WiFiSec connection.



Guest Internet Gateway - Provide guests controlled wireless access to the Internet only.

Custom Deployment - View all available options and optimize the configuration for your individual needs.

Setup Continues

6 The Setup Wizard

The **Setup Wizard** provides easy to follow instructions for configuring the SonicWALL on your network. You must have your ISP information to complete the configuration using the Setup Wizard.

TIP! *Certain browser configurations may not launch the Installation Wizard automatically. In this case, you must log into the SonicWALL using "**Admin**" as the **User Name** and "**password**" as the **Password**. After you log into the SonicWALL, click Wizards. Select **Setup** to begin configuring the SonicWALL.*

Follow the steps below for the quickest and easiest configuration for the SOHO TZW as an Office Gateway:

1. **Step 1: Deployment Scenario** - Office Gateway is selected by default. Click **Next**.
2. **Step 2: Change Password** - change the SOHO TZW password to your personal password. Click **Next**.
3. **Step 3: Change Time Zone** - change the Time Zone to your location's Time Zone. Click **Next**.
4. **Step 4: WAN Network Mode** - the type of network connectivity is detected automatically. If you want to select a different network mode, consult the Administrator's Guide on your product CD for more information.
5. **Step 5: WAN Network Mode** - if PPPoE is detected as your network connection, enter your user name and password from your ISP. Click **Next**. If a DHCP server is detected, click **Next**.
6. **Step 6: LAN Settings** - Review the LAN IP address and subnet mask. Use the default values.
7. **Step 7: LAN DHCP Settings** - If you want the SOHO TZW to distribute IP addresses to computers on your LAN, select **Enable DHCP Server**. Use the default IP address range. Click **Next**.
8. **Step 8: WLAN 802.11b Settings** - Use the default settings for the SSID and Channel. Click **Next**.
9. **Step 9: WiFiSec - VPN Client User Authentication** - WiFiSec is enabled by default. Users connecting to the WLAN using the VPN Client must have a user name and password. Configure your first user here. Click **Next**.
10. **Step 10: Wireless Guest Services** - Omit this step until you establish wireless connectivity. For more information on Wireless Guest Services, see the SOHO TZW Administrator's Guide on the product CD.
11. **Step 11: SonicWALL Configuration Summary** - Write down your network configuration information below. You need the WLAN IP address to configure Global VPN Client connections for users on your WLAN. Click **Apply**.
12. **Setup Wizard Complete** - Your SonicWALL is now successfully configured for LAN and WLAN access. Click **Restart** to complete the configuration process.

Network Settings

WAN - Network Mode:_____ IP Address:_____ Subnet Mask:_____

Router IP Address:_____ DNS Server 1 IP Address:_____
DNS Server 2 IP Address:_____

WLAN - IP Address:_____ DHCP Server Enabled: Yes___ No____

SSID:_____ Channel:_____ WiFiSec Enabled: Yes____ No____
Group VPN Enabled: Yes___ No___ Wireless Guest Services Enabled: Yes___ No___

TIP! **LAN** - IP Address:_____ Subnet Mask:_____DHCP Enabled: Yes___ No__

You must register your SonicWALL at <http://www.mysonicwall.com> to obtain the latest version of SOHO TZW firmware and access technical support.

7 Configuring Computers on the LAN

When the SonicWALL restarts, a window displays information to configure computers on your LAN.

DHCP Server Enabled on the SOHO TZW

If you enabled the SonicWALL DHCP Server or have a DHCP Server on your LAN, each computer must be configured to obtain its IP address dynamically. After the SonicWALL has restarted, change the network settings on the computers on the LAN. Follow the steps below for your operating system:

Windows XP

1. Click **Start**, then **Connect to**.
2. Right-click on the **Local Area Connection** icon and select **Properties**.
3. Open the **Local Area Connection Properties** window.
4. Double-click **Internet Protocol (TCP/IP)** to open the **Internet Protocol (TCP/IP) Properties** window.
5. Select **Obtain an IP address automatically**.
6. Select **Obtain DNS Server automatically**.
7. Click **OK** and then **OK** again for the settings to take effect on the computer.

Windows 2000

1. From your Windows task bar, click **Start**.
2. Then click **Settings**.
3. Click **Network and Dial-up Connections**.
4. Double-click the network icon to open the connection window.
5. Click **Properties**.
6. Highlight **Internet Protocol (TCP/IP)** and click **Properties**.
7. Select **Obtain an IP address automatically**.
8. Select **Obtain DNS Server automatically**.
9. Click **OK** and then **OK** again for the settings to take effect on the computer.

Windows NT

1. From the **Start** list, highlight **Settings** and then select **Control Panel**.
2. Double-click the **Network** icon in the **Control Panel** window.
3. Double-click **TCP/IP** in the **TCP/IP Properties** window.
4. Select **Obtain an IP address automatically**.
5. Click **DNS** at the top of the window.
6. Select **Obtain DNS Server automatically**.
7. Click **OK**, and then click **OK** again.
8. Restart the computer.

Windows 98

1. From the **Start** list, highlight **Settings** and then select **Control Panel**. Double-click the **Network** icon in the **Control Panel** window.
2. Double-click **TCP/IP** in the **TCP/IP Properties** window.
3. Select **Obtain IP Address automatically**.
4. Click **DNS Configuration**.
5. Select **Obtain DNS Server automatically**.
6. Click **OK**, and then click **OK** again.
7. Restart the computer for changes to take effect.

LAN Configuration Complete!

The SonicWALL is now functioning and protecting your network from Internet-based attacks and break-ins.

DHCP Server Disabled

If you did not enable the SonicWALL DHCP server or you do not have a DHCP server on your network, you must configure each computer with a static IP address from your LAN IP address range.

After the SonicWALL has restarted, change the nework settings on computers located on the LAN.

Follow the steps below to configure computers on your LAN:

Windows XP

1. Click **Start**, then **Connect to**.
2. Right-click on the **Local Area Connection** icon and select **Properties**.
3. Open the **Local Area Connection Properties** window.
4. Double-click **Internet Protocol (TCP/IP)** to open the **Internet Protocol (TCP/IP) Properties** window.
5. Select **Use the following IP address** and type an IP address from your LAN IP range in the **IP address** field.
6. Type 255.255.255.0 in the **Subnet Mask** field.
7. Type the SonicWALL LAN IP Address into the **Default Gateway** field.
8. Type the DNS IP address in the **Preferred DNS Server** field. If you have more than one address, type the second one in the **Alternate DNS server** field.
9. Click **OK** for the settings to take effect on the computer.

Windows 2000

1. From your Windows task bar, click **Start**.
2. Then click **Settings**.
3. Click **Network and Dial-up Connections**.
4. Double-click the network icon to open the connection window.
5. Click **Properties**.
6. Highlight **Internet Protocol (TCP/IP)** and click **Properties**.
7. Select **Use the following IP address**.
8. Type an IP address from your LAN IP range **IP address** field.
9. Enter 255.255.255.0 in the **Subnet** field.
10. Type the SonicWALL LAN IP Address into the **Default Gateway** field.
11. If you have a DNS Server IP address from your ISP, enter it in the **Preferred DNS Server** field.

Windows NT

1. From the **Start** list, highlight **Settings** and then select **Control Panel**.
2. Double-click the **Network** icon in the **Control Panel** window.
3. Double-click **TCP/IP** in the **TCP/IP Properties** window.
4. Select **Specify an IP Address**.
5. Type an IP address from your LAN IP range in the **IP Address** field.
6. Type 255.255.255.0 in the **Subnet Mask** field.
7. Type the SonicWALL LAN IP Address in the **Default Gateway** field.
8. Click **DNS** at the top of the window.
9. Type the DNS IP address in the **Preferred DNS Server** field. If you have more than one address, enter the second one in the **Alternate DNS server** field.
10. Click **OK**, and then click **OK** again.
11. Restart the computer.

Windows 98

1. From the **Start** list, highlight **Settings** and then select **Control Panel**. Double-click the **Network** icon in the **Control Panel** window.
2. Double-click **TCP/IP** in the **TCP/IP Properties** window.
3. Select **Specify an IP Address**.
4. Type an IP address from your LAN IP range in the **IP Address** field.
5. Type "255.255.255.0" in the **Subnet Mask** field.
6. Type the SonicWALL LAN IP Address in the **Default Gateway** field.
7. Click **DNS Configuration**.
8. Type the DNS IP address in the **Preferred DNS Server** field. If you have more than one address, type the second one in the **Alternate DNS server** field.
9. Click **OK**, and then click **OK** again.
10. Restart the computer for changes to take effect.

LAN Configuration Complete!

The SonicWALL is now functioning and protecting your network from Internet-based attacks and break-ins.

Computers on your LAN can now access the Internet through the SOHO TZW. For wireless users, you need to install and configure a wireless PC card on a laptop or computer according to the manufacturer's instructions.

Wireless PC Card Configuration

Proceed with the installation and configuration of your wireless PC card using the manufacturer's instructions before going to the next step.Your wireless PC card may detect the SOHO TZW wireless port automatically. If it does not detect it, use **sonicwall**, the default SSID, from the **Setup Wizard** when configuring your wireless PC card.

8 Installing the Global VPN Client Software

When you configure the WLAN port on the SOHO TZW, WiFiSec is enabled by default. The Global VPN Client software is required to securely connect wireless computers to the SOHO TZW. The software can be found on your Firmware and Documentation CD provided in the box. Copy the software to your wireless computer and follow the instructions below. The User Name and Password configured in the Setup Wizard is needed to log onto the WLAN network after installing the Global VPN Client.

What You Need to Get Started

- Windows 98 SE, Windows ME, Windows NT 4.0 (service pack 6 or later), Windows 2000 Professional (service pack 3 or later), Windows XP Professional, or Windows XP Home Edition
- An active Internet or dial-up connection
- SonicWALL Global VPN Client program

Quick Start Installation

Alert! Remove any installed VPN client program before installing the SonicWALL Global VPN Client.

Alert! You must use a zip program to unzip the SonicWALL Global VPN Client program files before installing it.

1. Double-click **setup.exe**.
2. The **Installation Wizard** launches.
3. Click **Next** to continue installation of the VPN Client.
4. Close all applications and disable any disk protection and personal firewall software running on your computer. Click **Next** to continue.
5. Select **I accept the terms of the license agreement**. Click **Next** to continue.
6. Click **Next** to accept the default location and continue installation.
7. Click **Install** to install the Global VPN Client files on your computer.
8. Select **Start VPN Global Client Automatically when users log in** to automatically launch the VPN Global Client when you log onto the computer, if desired.
9. Select **Launch program now** to automatically launch the Global VPN Client after finishing the installation.
10. Click **Finish** to complete the installation.

9 Adding a Wireless VPN Connection

Once you've installed the SonicWALL Global VPN Client software, you can download your VPN connection policy from a SonicWALL VPN gateway or import the policy file using the **New Connection Wizard**.

TIP!

*The Global VPN Client has a default WLAN connection that can also be used to connect to the WLAN. Simply highlight **SOHO TZW Connection** and right-click. Select **Enable** to connect to the WLAN. You need the user name and password created during installation to access the WLAN.*

If you did not use the default settings for the SOHO TZW WLAN, create a new connection using the WLAN IP address.

Configuring the SOHO TZW using a Wireless Client Connection

***Note:** Some operating systems do not require configuration of wireless client settings because the wireless card discovers the SOHO TZW automatically. Refer to the documentation accompanying your wireless card for specific instructions.*

1. Apply power to your SOHO TZW.
2. When the WLAN link LED is lit, set the mode on your wireless client adapter to **infrastructure**.
3. Set the SSID on your wireless client adapter to **sonicwall**.
4. Configure the TCP/IP properties on your wireless client adapter to "Obtain IP Address Automatically".
5. Notification of an association with the SOHO TZW on SSID **sonicwall** is displayed.
6. The wireless client adapter obtains a DHCP lease from the SOHO TZW.
7. Launch your Web browser and type *https://192.168.168.168* in the **Address** or **Location** field.
8. The Setup Wizard launches, and you can configure your SOHO TZW through your wireless connection.

***Note**: If you experience difficulty launching the wizard or any other difficulty during the configuration process, you can configure the SOHO TZW using your LAN connection. Please refer to the **Connecting the SonicWALL to the Network** section of this Quick Start Guide.*

Appendix

Resetting the Firmware to Factory Default Settings

At times, it may be necessary to reset the firmware on your SOHO TZW. For example, if you've forgotten your password and cannot access the management interface, resetting the firmware allows you to reset the SOHO TZW to factory default settings including the user name and password.

To quickly reset the firmware to factory default settings, locate the **Reset** button on the back of the SOHO TZW next to the LAN connection. Using a pointed object, press and hold the **Reset** button for 5-10 seconds. All settings are returned to the factory default settings including the password and the default LAN IP address of 192.168.168.168.

***Note**: This reset method does not require reloading the firmware.*

Resetting Firmware if Firmware is Corrupted (Test Light remains on)

If the **Test** light remains on after 90 seconds, the firmware may be corrupted. Follow these steps to load firmware onto the appliance:

1. To load new firmware onto the SOHO TZW, power down the appliance.
2. Wait 30 seconds, press and hold the **Reset** button.
3. At the same time, power on the appliance.
4. Continue to hold the Reset button until the **Test** light begins blinking.
5. Once the Test light stops blinking and remains lit, release the **Reset** button.
6. Open a Web browser, and type 192.168.168.168 into the **Address** or **Location** field.
7. A Web page displays the message, "Firmware appears to be corrupted." Click **Browse** to open a **File Open** dialogue box. Browse to the location of the firmware file. A rescue version of the firmware is located on the product CD.
8. After restoring the firmware on the appliance, go to https://www.mysonicwall.com and log into your account. Download the latest version of the firmware and then upload it to your appliance.

Documentation Available on our Web site

The SonicWALL documentation library, <http://www.sonicwall.com/support/wireless_documentation.html> has the following documents available for download in *.pdf format:

- SonicWALLSOHO TZW Administrator's Guide
- SonicWALL SOHO TZW Getting Started Guide (Cable and DLS)
- SonicWALL SOHO TZW Quick Start Guide
- SonicWALL SOHO TZW FAQ
- SonicWALL SOHO TZW Site Survey and Placement Guide
- SonicWALL SOHO TZW Troubleshooting Guide

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